

Title (en)

BISMUTH SULFIDE PARTICLES, METHOD FOR PRODUCING SAME, AND USE OF SAME

Title (de)

WISMUTSULFIDTEILCHEN, VERFAHREN ZUR HERSTELLUNG DAVON UND VERWENDUNG DAVON

Title (fr)

PARTICULES DE SULFURE DE BISMUTH, LEUR MÉTHODE DE PRODUCTION, ET LEUR UTILISATION

Publication

**EP 4043400 A1 20220817 (EN)**

Application

**EP 20875088 A 20200930**

Priority

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Abstract (en)

Provided are bismuth sulfide particles having a high degree of blackness. Bismuth sulfide particles having a high degree of blackness with an  $L^*$  value of 22.0 or lower in the  $L^*a^*b^*$  color system, and having a high infrared reflectance with a reflectance at a wavelength of 1200 nm of 30.0% or higher. The bismuth sulfide particles are produced by mixing a bismuth compound and a sulfur compound in an aqueous dispersion medium so that the ratio (S/Bi molar ratio) of the number of mol of sulfur atoms to the number of mol of bismuth atoms is 3.5-20 inclusive, and then heating. The heating temperature is preferably 30-145°C inclusive.

IPC 8 full level

**C01G 29/00** (2006.01); **C08K 3/30** (2006.01); **C08L 101/00** (2006.01); **C09D 7/61** (2018.01); **C09D 201/00** (2006.01); **C09K 3/00** (2006.01)

CPC (source: CN EP KR US)

**C01G 29/00** (2013.01 - CN EP KR US); **C08K 3/30** (2013.01 - CN KR US); **C08L 101/00** (2013.01 - KR); **C09D 5/004** (2013.01 - CN EP); **C09D 7/61** (2018.01 - CN EP KR US); **C09D 201/00** (2013.01 - KR); **C09K 3/00** (2013.01 - KR); **G01S 7/481** (2013.01 - CN); **G01S 17/88** (2013.01 - CN US); **C01P 2002/82** (2013.01 - CN EP US); **C01P 2002/84** (2013.01 - CN EP US); **C01P 2006/62** (2013.01 - CN EP); **C08K 2003/3009** (2013.01 - CN EP US)

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